

STATE OF WASHINGTON STATE BUILDING CODE COUNCIL

Washington State Energy Code Development **Standard Energy Code Proposal Form**

Jan 2022

		Log No. <u>21-GP3-017</u>				
Code being amended:	Commercial Provisions	Residential Provisions				
Code Section # R403.5.	<u>7</u>					
Brief Description:						
Deletes Section						
Proposed code change to new text and strikeout f		the Integrated Draft, linked above, and then use <u>underline</u> for				
R403.13 Heat p	ump space heating. Space heati	ng shall be provided by a heat pump system.				
EXCEPTIONS:						
in height above	1. Detached one- and two-family dwellings and multiple-single family dwellings (townhouses up to three stories in height above grade having an installed HVAC heating capacity no greater than 1.5 watts of electric resistance heating per square foot of dwelling unit conditioned floor area, or up to 500 watts, whichever is greater.					
Climate Zone 4, permitted to be	and 1,000 watts in Climate Zone heated using electric resistance	n installed HVAC heating capacity no greater than 750 watts in 5, in any separate habitable room with exterior fenestration are appliances. For buildings in location with exterior design watts above that allowed for Climate Zone 5 is permitted.				
each with exter watts in Climate considered prim	ior fenestration, is permitted to he Zone 4, and 1,300 watts in Clim	at has two primary walls facing different cardinal directions, have an installed HVAC heating capacity no greater than 1,000 ate Zone 5. Bay windows and other minor offsets are not on with exterior design conditions below 4°F (-15.6°C), an eate Zone 5 is permitted.				
3. Resistance ho	eating elements integrated into h	eat pump equipment.				
4. Solar therma	I systems.					
5. Waste heat, r	radiant heat exchanger, and ener	gy recovery systems.				
6. Supplementa	ry heat in accordance with Section	on R403.1.2.				

Purpose of code change:

By prohibiting the use of electric resistance and gas water heating appliances for primary heat, this section runs afoul with EPCA.

7. Where there is no electric utility service available at the building site.

8. Heating systems that rely primarily on biomass are allowed in Climate Zone 5.

Your amendment must meet one of the following criteria. Select at least one:							
Addresses a critical life/safety need.			Consistency with state or federal regulations.				
The amendment clarifies the intent or application of the code.			Addresses a unique character of the state.				
Corrects errors and omissions. Addresses a specific state policy or statute. (Note that energy conservation is a state policy)							
Check the building types that would be impacted by your code change:							
Single family/duplex/townhome		Multi-family 4 + stories		Institutional			
Multi-family 1 − 3 stories		Commercial / Retail		☐ Industrial			
Your name	Kevin Duell		Email address	kevin.duell@nwnatural.com			
Your organization	NW Natural		Phone number	503-610-7990			
Other contact name Ian Casey, NW Natural							

Economic Impact Data Sheet

Τc	there a	n economic impact	: X Yes	□No
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Briefly summarize your proposal's primary economic impacts and benefits to building owners, tenants, and businesses. If you answered "No" above, explain your reasoning.

This proposal will reduce construction costs by allowing more appliance choices for builders.

Provide your best estimate of the **construction cost** (or cost savings) of your code change proposal? (See OFM Life Cycle Cost **Analysis tool** and **Instructions**; use these **Inputs. Webinars on the tool can be found Here and Here**)

\$Click here to enter text./square foot (For residential projects, also provide \$Click here to enter text./ dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages

There is insufficient time to provide detailed construction cost calculations for all occupancies.

Provide your best estimate of the annual energy savings (or additional energy use) for your code change proposal?

Click here to enter text.KWH/ square foot (or) Click here to enter text.KBTU/ square foot

(For residential projects, also provide Click here to enter text.KWH/KBTU / dwelling unit)

Show calculations here, and list sources for energy savings estimates, or attach backup data pages

Given requirements for Additional Energy Credits, energy savings should be similar to the 2021 WSEC-R.

List any **code enforcement** time for additional plan review or inspections that your proposal will require, in hours per permit application:

Small Business Impact. Describe economic impacts to small businesses:

This should reduce economic impacts to small businesses.

Housing Affordability. Describe economic impacts on housing affordability:

This should reduce economic impacts on housing affordability.

Other. Describe other qualitative cost and benefits to owners, to occupants, to the public, to the environment, and to other stakeholders that have not yet been discussed: